AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A loading-assisting apparatus for ~~use with~~assisting loading of object processing groups in buckets of a centrifuge, the apparatus comprising:

a measuring device configured to measure ~~the~~a weight ~~corresponding to~~of each of the object processing groups ~~of objects loaded in buckets of a centrifuge~~;

a ~~determination~~detector device communicating with the measuring device and configured to ~~determine~~detect a ~~variation of~~difference between the weight of each of the object processing groups ~~of the objects with reference to~~and a ~~corresponding~~reference value~~, based on the weight of each of the processing groups measured by the measuring device~~; and

an adjusting/loading device communicating with the detector device and configured to make predetermined weight adjustments to each of the processing groups in accordance with the difference~~determination the determination device makes, and to~~, the adjusting/loading device subsequently ~~load~~loading the processing groups in the centrifuge.

2. (Currently Amended) A loading-assisting apparatus for ~~use with~~assisting loading of object processing groups in buckets of a centrifuge, the apparatus comprising:

a measuring device configured to measure a weight ~~corresponding to~~of each of the object processing groups ~~of objects~~before the processing groups are loaded in the buckets of ~~a~~the centrifuge;

a ~~determination~~detector device communicating with the measuring device and configured to ~~determine~~detect a ~~variation of~~difference between the weight of each of the object processing

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groups ~~with reference to~~and a ~~corresponding~~reference value~~, based on the weight of each of the processing groups measured by the measuring device~~; and

an adjusting/loading device communicating with the detector device and configured to make predetermined weight adjustments to each of the processing groups in accordance with the difference~~determination the determination device makes, and to~~, the adjusting/loading device subsequently ~~load~~loading the processing groups in the centrifuge.

3. (Currently Amended) A loading-assisting apparatus according to claim 2, wherein the ~~determination~~detector device compares ~~measurement data, which represent~~ the weight of each of the object processing ~~group of the objects,~~groups with the reference ~~data~~value, and generates ~~and outputs variation~~ranking signals corresponding to ~~the~~differences between the ~~measurement data~~weight and the reference ~~data~~value, respectively.

4. (Currently Amended) A loading-assisting apparatus according to claim 3, wherein the adjusting/loading device includes means for adding a dummy object to each of the processing groups in accordance with the ~~variation~~ranking signals transmitted from the ~~determination~~detector device, and for subsequently ~~performing a~~loading ~~operation with reference to the buckets of the centrifuge~~the processing groups.

5. (Currently Amended) A loading-assisting apparatus for ~~use with~~assisting loading of objects to be processed in buckets of a centrifuge, the apparatus comprising:

a measuring device configured to individually measure weights of the objects to be processed before the objects are loaded in the centrifuge;

means for sequentially loading the objects in buckets of the centrifuge after the measuring device measures the weights of the objects;

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counters configured to add the weights of the objects sequentially loaded in the buckets

of the centrifuge such that a total weight is obtained for each ~~of processing groups~~group of ~~the~~

objects loaded in the buckets;

a ~~determination~~detector device communicating with the counters and configured to

~~determine~~detect a ~~variation of~~difference between the weight of each ~~of the processing groups~~

~~with reference to~~group and a ~~corresponding~~reference value~~, based on the weight of each of the~~

~~processing groups measured by the measuring device~~; and

an adjusting/loading device communicating with the detector device and configured to

make weight adjustments to each of the groups already loaded in the buckets~~,~~ in accordance with

the ~~difference~~determination ~~the determination device makes~~.

6. (Currently Amended) A loading-assisting apparatus for use with a centrifuge,

according to claim 5, wherein the ~~determination~~detector device compares ~~measurement data,~~

~~which represent a total~~the weight of each ~~processing~~group of ~~the~~objects~~,~~ with the reference

~~data, and generates~~value, the detector device generating ~~and outputs variation~~ ranking signals

corresponding to ~~the~~differences between the ~~measurement data~~weight and the reference

~~data~~value, respectively.

7. (Currently Amended) A loading-assisting apparatus ~~for use with a centrifuge,~~

according to claim 6, wherein the adjusting/loading device includes means for adding a dummy

object to each of the processing groups loaded in the buckets in accordance with the ~~variation~~

ranking signals transmitted from the ~~determination~~detector device.